

# Environmental Quality, Air Quality

## R307-206

### Emission Standards: Abrasive Blasting

#### NOTICE OF PROPOSED RULE (Amendment)

DAR FILE NO.: 27759  
FILED: 03/15/2005, 16:18

#### RULE ANALYSIS

**PURPOSE OF THE RULE OR REASON FOR THE CHANGE:** The purpose of this amendment is to clarify existing abrasive blasting requirements and the applicability of this rule. This amendment is part of the overall revisions to the rules related to the new PM10 Maintenance Plan (see separate filing on Section R307-110-10, in this issue). Utah will seek redesignation of Salt Lake and Utah Counties and Ogden City from nonattainment to attainment of the PM10 health standard following final adoption of the plan. These revisions are in anticipation of this redesignation. (DAR NOTE: The proposed amendment to Section R307-110-10 is under DAR No. 27768 in this issue.)

**SUMMARY OF THE RULE OR CHANGE:** Currently, this rule applies statewide and is part of the federally enforceable State Implementation Plan. Upon adoption by the board, Rule R307-206 will only apply outside the nonattainment and

maintenance areas and the state will request EPA to retract Rule R307-206. Another rule, R307-306 (see separate filing on R307-306 in this issue), will apply within the nonattainment and maintenance areas. In addition, revisions of R307-206 help clarify the current abrasive blasting requirements. (DAR NOTE: The proposed amendment to Rule R307-306 is under DAR No. 27763 in this issue.)

**STATE STATUTORY OR CONSTITUTIONAL AUTHORIZATION FOR THIS RULE:** Subsection 19-2-104(1)(a)

#### ANTICIPATED COST OR SAVINGS TO:

- ❖ **THE STATE BUDGET:** Because this revision does not create any new requirements, no change in cost is expected for state government.
- ❖ **LOCAL GOVERNMENTS:** Because this revision does not create any new requirements, no change in cost is expected for local government.
- ❖ **OTHER PERSONS:** Because this revision does not create any new requirements, no change in cost is expected for other persons.

**COMPLIANCE COSTS FOR AFFECTED PERSONS:** Because this revision does not create any new requirements, no change in cost is expected for affected persons.

**COMMENTS BY THE DEPARTMENT HEAD ON THE FISCAL IMPACT THE RULE MAY HAVE ON BUSINESSES:** This amendment does not create new requirements. Therefore, no additional costs are expected. Dianne R. Nielson, Executive Director

THE FULL TEXT OF THIS RULE MAY BE INSPECTED, DURING REGULAR BUSINESS HOURS, AT:

ENVIRONMENTAL QUALITY  
AIR QUALITY  
150 N 1950 W  
SALT LAKE CITY UT 84116-3085, or  
at the Division of Administrative Rules.

#### DIRECT QUESTIONS REGARDING THIS RULE TO:

Mat E. Carlile or Jan Miller at the above address, by phone at 801-536-4136 or 801-536-4042, by FAX at 801-536-0085 or 801-536-4099, or by Internet E-mail at MCARLILE@utah.gov or janmiller@utah.gov

INTERESTED PERSONS MAY PRESENT THEIR VIEWS ON THIS RULE BY SUBMITTING WRITTEN COMMENTS TO THE ADDRESS ABOVE NO LATER THAN 5:00 PM on 05/02/2005

INTERESTED PERSONS MAY ATTEND A PUBLIC HEARING REGARDING THIS RULE: 4/19/2005 at 10:00 AM, DEQ Bldg, 168 N 1950 W, Room 101, Salt Lake City, UT; 4/20/2005 at 1:30 PM, Utah County Administration Bldg, 100 E Center Street, Suite 2300, Provo, UT; and 4/21/2005 at 6:00 PM, Weber County Bldg, 2380 Washington Blvd, Breakout Room, Ogden, UT.

THIS RULE MAY BECOME EFFECTIVE ON: 07/30/2005

AUTHORIZED BY: M. Cheryl Heying, Planning Branch Manager

#### R307. Environmental Quality, Air Quality. R307-206. Emission Standards: Abrasive Blasting. R307-206-1. Purpose.

R307-206 establishes work practice and emission standards for abrasive blasting operations for sources located statewide except for those sources listed in section IX, Part H of the state implementation plan or located in a PM10 nonattainment or maintenance area.

#### R307-206-2. Definitions.

- (1) The following additional definitions apply to R307-206:
- "Abrasive Blasting" means the operation of cleaning or preparing a surface by forcibly propelling a stream of abrasive material against the surface.
  - "Abrasive Blasting Equipment" means any equipment utilized in abrasive blasting operations.
  - ~~["Abrasives" means any material used in abrasive blasting operations including but not limited to sand, slag, steel shot, garnet or walnut shells.~~
  - "Confined Blasting" means any abrasive blasting conducted in an enclosure which significantly restricts air contaminants from being emitted to the ambient atmosphere, including but not limited to shrouds, tanks, drydocks, buildings and structures.
  - ~~["Hydroblasting" means any abrasive blasting using high pressure liquid as the propelling force.~~
  - "Multiple Nozzles" means a group of two or more nozzles being used for abrasive cleaning of the same surface in such close proximity that their separate plumes are indistinguishable.
  - "Unconfined Blasting" means any abrasive blasting which is not confined blasting as defined above.[

— "Wet Abrasive Blasting" means any abrasive blasting using compressed air as the propelling force and sufficient water to minimize the plume.]

### **R307-206-3. Applicability.**

R307-206 applies statewide to any abrasive blasting operation, except for any source that is listed in Section IX, Part H of the state implementation plan or that is located in a PM10 nonattainment or maintenance area.

### **R307-206-[2]4. Visible Emission Standards.**

[(4)]Visible emissions from abrasive blasting operations shall not exceed 40% opacity, except for an aggregate period of three minutes in any one hour [No person shall, if he complies with performance standards outlined in R307-206-4 or if he is not located in an area of nonattainment for particulates, discharge into the atmosphere from any abrasive blasting any air contaminant for a period or periods aggregating more than three minutes in any one hour which is a shade or density darker than 40% opacity.

— (2) No person shall, if he is not complying with an applicable performance standard in R307-206-4 and is in an area of nonattainment, discharge into the atmosphere from any abrasive blasting any air contaminant for a period or periods aggregating more than three minutes in any one hour which is of a shade or density no darker than 20% opacity.]

### **R307-206-[3]5. Visible Emission Evaluation Techniques.**

[Visible emission evaluation of abrasive blasting operations shall be conducted in accordance with the following provisions:] (1) Visible emissions shall be measured using EPA Method 9. Visible emissions from intermittent sources shall use procedures similar to Method 9, but the requirement for observations to be made at 15 second intervals over a six-minute period shall not apply.

[(4)](2) Visible e[E]missions from unconfined blasting shall be [read]measured at the densest point of the emission after a major portion of the spent abrasive has fallen out, at a point not less than five feet nor more than twenty-five feet from the impact surface from any single abrasive blasting nozzle.

[(2)](3) An unconfined blasting operation that uses[Emissions from unconfined blasting employing] multiple nozzles shall be [judged as]considered a single source unless it can be demonstrated by the owner or operator that each nozzle, [evaluated]measured separately, meets the emission and performance standards provided [for]in R307-206-2 through 4.

[(3)](4) Visible e[E]missions from confined blasting shall be [read]measured at the densest point after the air contaminant leaves the enclosure.]

— (i) Before blasting the abrasive shall not contain more than 1% by weight material passing a #70 U.S. Standard sieve.

— (ii) After blasting the abrasive shall not contain more than 1.8% by weight material 5 micron or smaller.

— (b) Abrasives reused for dry unconfined blasting are exempt from (a)(ii) above, but must conform with (a)(i) above.

— (3) Abrasive Certification— Sources using the performance standard of (1)(d) above to meet the requirements of R307-206-2 must demonstrate they have obtained abrasives from persons which have certified (submitted test results) to the executive secretary at least annually that such abrasives meet the requirements of (2) above.

### **R307-206-5. Emissions Standards.**

— Other provisions of R307 may require more stringent controls than listed herein, in which case those requirements must be met.]

KEY: air pollution, abrasive blasting[±], PM10  
19-2-104(1)(a)